

FILEID**FORSTOP

C 2

```

FFFFFFFFF  000000  RRRRRRRR  SSSSSSSS  TTTTTTTTTT  000000  PPPPPPPP
FFFFFFFFF  000000  RRRRRRRR  SSSSSSSS  TTTTTTTTTT  000000  PPPPPPPP
FF          00      00  RR      RR  SS          TT          00      00  PP      PP
FF          00      00  RR      RR  SS          TT          00      00  PP      PP
FF          00      00  RR      RR  SS          TT          00      00  PP      PP
FF          00      00  RR      RR  SS          TT          00      00  PP      PP
FFFFFFFFF  00      00  RRRRRRRR  SSSSSS          TT          00      00  PPPPPPPP
FFFFFFFFF  00      00  RRRRRRRR  SSSSSS          TT          00      00  PPPPPPPP
FF          00      00  RR  RR          SS          TT          00      00  PP
FF          00      00  RR  RR          SS          TT          00      00  PP
FF          00      00  RR  RR          SS          TT          00      00  PP
FF          00      00  RR  RR          SS          TT          00      00  PP
FF          00      00  RR  RR          SS          TT          00      00  PP
          000000  RR      RR  SSSSSSSS          TT          000000  PP
          000000  RR      RR  SSSSSSSS          TT          000000  PP
                                     ....
                                     ....
                                     ....
                                     ....

LL          111111  SSSSSSSS
LL          111111  SSSSSSSS
LL          11      SS
LL          11      SS
LL          11      SS
LL          11      SS
LL          11      SSSSSS
LL          11      SSSSSS
LL          11      SS
LL          11      SS
LL          11      SS
LL          11      SS
LL          11      SS
LLLLLLLLLL  111111  SSSSSSSS
LLLLLLLLLL  111111  SSSSSSSS

```

FOR
Sym

FOR
SYS

PSE

_FC

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MAC

```

1 0001 0 MODULE FOR$STOP (      ! FORTRAN STOP statement
2 0002 0      IDENT = '1-004' ! File: FORSTOP.B32 Edit:DGP1004
3 0003 0      ) =
4 0004 1 BEGIN
5 0005 1
6 0006 1
7 0007 1 *****
8 0008 1 *
9 0009 1 *   COPYRIGHT (c) 1978, 1980, 1982, 1984 BY
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26 0026 1 *
27 0027 1 *****
28 0028 1
29 0029 1
30 0030 1
31 0031 1 ++
32 0032 1 FACILITY:  FORTRAN Support Library
33 0033 1
34 0034 1 ABSTRACT:
35 0035 1
36 0036 1     Output optional string and suspend process
37 0037 1
38 0038 1 ENVIRONMENT:  User Mode - AST re-entrant
39 0039 1
40 0040 1 AUTHOR:  Thomas N. Hastings, CREATION DATE:  8-Aug-1977
41 0041 1
42 0042 1 MODIFIED BY:
43 0043 1
44 0044 1     Thomas N. Hastings, 8-Aug-1977: VERSION 0
45 0045 1 01 - original
46 0046 1 0-3 - Print FORTRAN STOP if no arg.  TNH 13-Dec-77
47 0047 1 0-04 - Change to STARLET library.  DGP 20-Apr-78
48 0048 1 0-05 - Change REQUIRE files for VAX system build.  DGP 28-Apr-78
49 0049 1 0-06 - Change STARLET to RTLSTARLE to avoid conflicts.  DGP 1-May-78
50 0050 1 0-07 - Make PIC.  TNH 30-June-78
51 0051 1 0-08 - Change file name to FORSTOP.B32, and change the name of the
52 0052 1     REQUIRE file similarly.  JBS 14-NOV-78
53 0053 1 1-001 - Update version number and copyright notice.  JBS 16-NOV-78
54 0054 1 1-002 - Return a value to keep BLISS compiler happy.  JBS 27-NOV-78
55 0055 1 1-003 - Change REQUIRE file names from FOR... to OTS...  JSB 06-DEC-78
56 0056 1 1-004 - Move ACTUALCOUNT into body of routine and initialize the class
57 0057 1     and d_type of default descriptor.  DGP 28-Oct-1981

```


FOR\$STOP
1-004

: 58

0058 1 !--

E 2
16-Sep-1984 00:45:46
14-Sep-1984 12:32:45

VAX-11 Bliss-32 V4.0-742
[FORRTL.SRC]FORSTOP.B32;1

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FOR
Tab

```
60 0059 1 |
61 0060 1 | TABLE OF CONTENTS:
62 0061 1 |
63 0062 1 |
64 0063 1 | FORWARD ROUTINE
65 0064 1 |     FOR$STOP;                ! STOP statement
66 0065 1 |
67 0066 1 |
68 0067 1 | INCLUDE FILES:
69 0068 1 |
70 0069 1 | REQUIRE 'RTLIN:OTSMAC';      ! Define macros
71 0263 1 | REQUIRE 'RTLIN:RTLPSECT';    ! Define DECLARE_PSECTS macro
72 0358 1 | LIBRARY 'RTLSTARLE';        ! STARLET library for macros and symbols
73 0359 1 |
74 0360 1 | MACROS:
75 0361 1 |
76 0362 1 |
77 0363 1 |
78 0364 1 | EQUATED SYMBOLS:
79 0365 1 |
80 0366 1 |
81 0367 1 |
82 0368 1 | PSECT DECLARATIONS:
83 0369 1 |
84 0370 1 |
85 0371 1 |     DECLARE_PSECTS (FOR);    ! declare PSECTs for FOR$ facility
86 0372 1 |
87 0373 1 |
88 0374 1 | OWN STORAGE:
89 0375 1 |
90 0376 1 |
91 0377 1 |
92 0378 1 | EXTERNAL REFERENCES:
93 0379 1 |
94 0380 1 |
95 0381 1 | EXTERNAL ROUTINE
96 0382 1 |     LIB$PUT_OUTPUT: NOVALUE ADDRESSING_MODE(GENERAL); ! Output on device $OUTPUT
```

```

98 0383 1 GLOBAL ROUTINE FOR$STOP (      ! FORTRAN STOP statement
99 0384 1 MESSAGE_DSC_ADR)              ! Adr. of optional string descriptor to output
100 0385 1 =                            ! Value returned is $$SUSPND completion code
101 0386 1 ++
102 0387 1 FUNCTIONAL DESCRIPTION:
103 0388 1
104 0389 1     FORTRAN STOP outputs an optional string on device $OUTPUT
105 0390 1     and calls $EXIT with a success completion status.
106 0391 1     If no argument is present, 'FORTRAN STOP' is printed.
107 0392 1
108 0393 1 FORMAL PARAMETERS:
109 0394 1
110 0395 1     message_dsc_adr.rt.dx      ! Adr. of optional string descriptor to output
111 0396 1
112 0397 1 IMPLICIT INPUTS:
113 0398 1
114 0399 1     Logical device assignment for $OUTPUT (see LIB$PUT_OUTPUT)
115 0400 1
116 0401 1 IMPLICIT OUTPUTS:
117 0402 1
118 0403 1     NONE
119 0404 1
120 0405 1 COMPLETION CODES:
121 0406 1
122 0407 1     NONE
123 0408 1
124 0409 1 SIDE EFFECTS:
125 0410 1
126 0411 1     Outputs message on device $OUTPUT and calls $EXIT with success code 1.
127 0412 1
128 0413 1 --
129 0414 1
130 0415 2 BEGIN
131 0416 2
132 0417 2 BUILTIN
133 0418 2     ACTUALCOUNT;              ! Return the number of actual parameters
134 0419 2 LOCAL
135 0420 2     DESCR: DSC$DESCRIPTOR;    ! descriptor (needed to be PIC)
136 0421 2
137 0422 2 !+
138 0423 2 ! Output optional message on device $OUTPUT, if arg present.
139 0424 2 !-
140 0425 2
141 0426 2 IF ACTUALCOUNT() GEQ 1
142 0427 2 THEN
143 0428 2     LIB$PUT_OUTPUT (.MESSAGE_DSC_ADR)
144 0429 2 ELSE
145 0430 2     BEGIN
146 0431 2         DESCR[DSC$B_CLASS] = DSC$K_CLASS_S;
147 0432 2         DESCR[DSC$B_DTYPE] = DSC$K_DTYPE_T;
148 0433 2         DESCR[DSC$W_LENGTH] = 12;
149 0434 2         DESCR[DSC$A_POINTER] = UPLIT ('FORTRAN STOP');
150 0435 2         LIB$PUT_OUTPUT (DESCR);
151 0436 2     END;
152 0437 2
153 0438 2
154 0439 2 !+
```


FOR\$STOP
1-004

H 2
16-Sep-1984 00:45:46
14-Sep-1984 12:32:45

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[FORRTL.SRC]FOR\$STOP.B32;1

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```
: 155      0440 2      ! EXIT with success completion status code of 1.
: 156      0441 2      !-
: 157      0442 2
: 158      0443 3      $EXIT (CODE=1)
: 159      0444 1      END;                                ! End of routine FOR$STOP
```

```
                                .TITLE FOR$STOP
                                .IDENT \1-004\
                                .PSECT _FOR$CODE,NOWRT, SHR, PIC,2
50 4F 54 53 20 4E 41 52 54 52 4F 46 00000 P.AAA: .ASCII \FORTRAN STOP\
                                .EXTRN LIB$PUT_OUTPUT, SYS$EXIT
                                .ENTRY FOR$STOP, Save nothing
                                SUBL2 #8, SP
                                TSTB (AP)
                                BEQL 1$
                                PUSHL MESSAGE_DSC_ADR
                                BRB 2$
                                04 6E 010E000C 8F DO 0000E 1$: MOVL #17694732, DESCR
                                04 AE DC AF 9E 00015 MOVAB P.AAA, DESCR+4
                                00000000G 00 5E DD 0001A PUSHL SP
                                00000000G 00 01 FB 0001C 2$: CALLS #1, LIB$PUT_OUTPUT
                                01 DD 00023 PUSHL #1
                                01 FB 00025 CALLS #1, SYS$EXIT
                                04 0002C RET
```

; Routine Size: 45 bytes, Routine Base: _FOR\$CODE + 000C

```
: 160      0445 1 END
: 161      0446 0 ELUDOM                                ! End of module FOR$STOP
```

PSECT SUMMARY

Name	Bytes	Attributes
_FOR\$CODE	57	NOVEC,NOWRT, RD , EXE, SHR, LCL, REL, CON, PIC,ALIGN(2)

Library Statistics

File	Total	Symbols Loaded	Percent	Pages Mapped	Processing Time
_\$255\$DUA28:[SYSLIB]STARLET.L32;1	9776	8	0	581	00:01.0

FOR\$STOP
1-004

¹
16-Sep-1984 00:45:46
²
14-Sep-1984 12:32:45

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[FORRTL.SRC]FORSTOP.B32;1

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COMMAND QUALIFIERS

BLISS/CHECK=(FIELD,INITIAL,OPTIMIZE)/NOTRACE/LIS=LIS\$:FORSTOP/OBJ=OBJ\$:FORSTOP MSRC\$:FORSTOP/UPDATE=(ENH\$:FORSTOP)

: Size: 45 code + 12 data bytes
: Run Time: 00:04.4
: Elapsed Time: 00:18.5
: Lines/CPU Min: 6054
: Lexemes/CPU-Min: 22656
: Memory Used: 49 pages
: Compilation Complete

0184 AH-BT13A-SE
VAX/VMS V4.0

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